

## **Appendix E – Resumes**



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## DOUGLAS A. LAMOTHE

### SUMMARY OF EXPERIENCE

Mr. Lamothe has a total of 39 years experience in the Explosive Ordnance Disposal (EOD) and Unexploded Ordnance (UXO) field. He is a qualified Master EOD Technician with 18 years experience in all facets of explosive ordnance disposal to include planning, organizing and supervising range clearance operations, large scale disposal operations, ordnance and weapons systems technical intelligence and inerting, ordnance and explosive related training programs, and emergency response activities throughout the US, Far East and Mediterranean area while serving in the US Marine Corps. He possesses an additional 18 years of extensive experience in all aspects of UXO/OE/CWM services to include planning, design, scheduling, cost estimates/cost control, execution, application of new/innovative technology and techniques, and management of multiple contracts, projects and subcontractors for Emergency/Rapid Response, Time Critical Removal Actions, Site Investigations, EE/CA's, Removal Actions and Range Clearance and Maintenance at Active Ranges, FUDS Sites, BRAC Sites, and commercial/private industry sites. He has also conducted threat assessments, vulnerability assessments, dignitary protection support, and course development and instructor services for the US Department of State Anti-Terrorism Assistance Program in Oklahoma City, Oklahoma and Baton Rouge, Louisiana.

### PROFESSIONAL EXPERIENCE

**ECC, Denver, Colorado (12/03-Present).** As UXO Program Manager, responsibilities include primary point of contact for client relations, regulators, and the public issue resolution and corrective actions; and conducting risk management and value engineering assessments. Conducts audits and site operational reviews; evaluates and guides project management staff and labor; delegates field assignments to project managers, UXOQCS, SUXOS, UXOSO, and technicians based upon fit-for-duty criteria; prepares project cost proposals, budgets and schedules; develops project strategies in terms of value engineering and risk management approach to schedule, integrates the use of new/innovative technology; reviews and approves all project submittals; tracks schedule and cost performance; and assists in the development, finalization, and overall quality.

**SAIC, Oak Ridge, Tennessee (9/02-12/03).** As Senior Program Manager for UXO/OE Services, responsible for the development of a viable program within SAIC, to include business development activities, proposals, development of internal UXO/OE/CWM policies and procedures, selection and oversight of UXO subcontractors, and the safety, quality and overall execution of UXO/OE work elements and projects. Supports Homeland Defense, Vulnerability Assessment and Range Sustainment activities of the company. Project activities have included:

*Recruiting Centers Vulnerability Assessment Contract:* Member of two-person field team that conducted vulnerability assessments at 24 recruiting facilities throughout the country and at a "Special Event." Assisted in the preparation of the project report that included assessments at over 300 sites nationwide and recommendations for security improvements and upgrades at all US military recruiting facilities. He was also responsible for development of an Operational Security Manual for the Recruiting Centers.

*Florida Department of Law Enforcement (FDLE) Vulnerability Assessment Contract:* Member of two-person field team that conducted site visits and discussions with authorities regarding current threat awareness and in place security/vulnerability procedures for the Capitol Complex and off-site Mail Handling Facility, FDLE Forensics and Crime Laboratory, Florida State University, the Capitol Complex/Governor's Aircraft Facility, the Florida Emergency Management Regional Operations Center



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(Tallahassee) and a Florida interstate highway Welcome Center. Also provided assistance in preparation of the draft report for the FDLE.

*OE Response and Services – CONUS and OCONUS:* SAIC Program Manager for a \$60 million ID/IQ contract awarded by the US Army Engineering & Support Center, Huntsville (CEHNC) to the ATI (Prime)/SAIC (Sub) Team to provide full range of OE services worldwide, including Site Investigations, EE/CAs, Removal Actions, Remediation, Studies, etc. He managed multiple delivery orders for SAIC, to include: EE/CA, OE-related Geophysical Services and an Identification and Evaluation of Commercial CWM Detection Systems.

*RAP Training Emergency Response Program (RAPTER):* SAIC provided support the RAPTER training program under contract with DOE (Sandia National Lab). Mr. Lamothe was responsible to develop and instruct the EOD, Bomb Squad and IED related training modules for this course. He also provided support for several field exercises conducted during this training.

**SCI UXO/OE Services (Nasus Holdings, LLC), Huntsville, Alabama (11/98-9/02).** Executive Vice President and General Manager of SCI UXO/OE Services (formerly UXO/OE Services Division of Sudhakar Company, Inc.). Responsible for formation, startup and development of the UXO/OE Services Division and the day-to-day management of SCI UXO/OE Services. Responsibilities included: marketing and business development; preparation of all proposals; contract negotiations; budgets and business plans; all UXO/OE/CWM related policies, procedures and SOP's; UXO/OE/CWM safety and quality assurance; execution of all UXO/OE/CWM-related contracts and projects (worldwide), to include staffing, schedule, performance and cost control; the International UXO Training Program (IUTP); all personnel; and was also the QA/QC Manager. Also served as Program Manager on seven major ID/IQ and FFP UXO/OE prime contracts (for CEHNC, USACE Omaha District, White Sands Missile Range and Fort Hood, Texas) and as program or project manager on several subcontracts with numerous on-going projects and contracts, totaling 22 separate projects with a value of over \$8 million. Under his leadership, the division grew from formation to over \$3 million in annual revenue and \$18 million contract backlog in two years.

**American Technologies Inc. (ATI), Oak Ridge, Tennessee (9/96-10/98).** Responsible for all UXO/MEC/CWM programs/projects and overall performance, including schedule, cost, budget, and administrative performance; client interface; technical personnel resources; quality assurance; UXO/MEC/CWM safety; and technical training. Served as Program Manager for Dicks Auto Works, Fontana, California, UXO removal project and for the Ft. Irwin Range Clearance and Maintenance Project in California (1997-1998). The project included identical SOW elements as required for the current Ft. Irwin contract, including compliance with Federal, state, and local laws and regulations; clearance of grids, demilitarization, and disposition of munitions and scrap munitions, while working around the NTC training schedule. All work on these projects was completed within schedule and budget, without any safety accidents, incidents and/or violations while meeting or exceeding all quality requirements.

**OES, Inc., Gainesville, Florida (10/94-9/96).** VP and Operations Manager. Established the UXO/MEC program and performed as the Senior Technical Advisor on 14 UXO/MEC projects at former defense sites. Responsible for all projects and operational performance, including schedule, cost, and administrative performance; technical personnel resources; UXO/MEC/CWM safety; quality assurance, and technical training. Served as Project Manager for the Demonstration Project for the Phase I Remediation, Bottom Land Burn Areas, Savanna Army Depot Activity, Savanna, Illinois, contract with USACE Louisville District. The objective of this \$5.1 million demonstration project was to remove all non-ordnance and ordnance-related debris, UXO, MEC, and possible CWM materials and MPPEH scrap



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from a 6-acre parcel of the OBG, while gathering all related data and information that would help to provide a better understanding of the debris separation process and thus allow future full-scale debris separation and removal operations to be conducted in the most technically sound, efficient, safe and cost-effective manner.

**EOD Technology, Inc. (EODT), Oak Ridge, Tennessee (2/87-9/94).** As Founder, President and CEO, responsible for the organization, operation, and overall management of the corporation. In addition, served as a Site Safety and QC Officer, Senior UXO Supervisor, project manager and program manager on numerous UXO/OE/CWM site investigations, removal actions, and remediation programs. Instrumental in the acquisition and/or development of "new technology" for application in UXO/OE environmental projects, such as the USRADS/UXO System and biochemical treatment technology and techniques. Under his leadership, the corporation grew from \$36,000 to over \$12 million annual revenue in four and a half years during the beginning years of a completely new civilian business (UXO/OE) arena. Continued to provide periodic instructor services on the US Department of State Anti-Terrorism Assistance Program at Baton Rouge, Louisiana through 1989.

**Lamothe & Associates, Fredericksburg, Virginia (6/95-2/87).** Provided extensive consulting services in EOD-, UXO-, OE-, CWM-related areas. In these capacities, provided robot evaluation and engineering input for improvements and optional equipment; training of operators and maintenance personnel in the use of all-terrain robotic vehicles for handling UXO, IED's, other hazardous materials, security surveillance and hostage negotiation. Also provided IED-, EOD- and explosives-related training for bomb squad and other personnel from the US Department of State, and provided course development and instructor services for foreign police/military personnel on the State Department Anti-Terrorism Assistance Program (ATAP) contracts in Oklahoma City, Oklahoma and Baton Rouge, Louisiana. During this period, also worked for UXB International, Washington, D.C. (on a temporary basis) and he conducted facility security assessments regarding protection against explosive attacks at Fort Lauderdale, FL International Airport, the Port of Fort Lauderdale and National Airport, Washington, D.C.

**US Marine Corps (5/65-5/85).** Mr. Lamothe spent over 18 years in Explosive Ordnance Disposal (EOD) and was qualified as a Master EOD Technician. During his career, provided assistance to the US Naval EOD Technology Center; the FBI Explosives Lab and Bomb Data Center; the US Secret Service (Munitions Countermeasures Section); the US Department of State; the Federal Aviation Administration; the US Bureau of Alcohol, Tobacco, and Firearms (BATF); the Marine Corps Development Center; and the Naval Surface Weapons Center in the areas of: munitions/weapons analysis; technical intelligence; EOD equipment development, testing and evaluation; specialized explosive testing; emergency response and training. Conducted, coordinated, and directed technical training courses for US and foreign military organizations and Federal, state, and local agencies regarding foreign and domestic munitions, weapons systems, explosives, explosive operations, explosive safety, range clearance procedures, and improvised explosive devices. Participated in and supervised large-scale disposal operations and ammunition supply point disaster cleanups in Vietnam; conducted and supervised domestic and foreign ordnance inerting operations; and participated in, organized, and supervised range clearance activities throughout the US, Far East, and Mediterranean area. Served as Base Operations Chief, Marine Corps Development and Education Command, Quantico, Virginia.



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## **EDUCATION AND TRAINING**

FBI Regional Bomb Technician Course, 1981, 1983, 1985, 1986  
FBI Bomb Scene Investigation School, Quantico, Virginia, 1981  
Ammunition Inspectors School, Redstone Arsenal, Alabama, 1984  
Basic and Advanced Naval EOD School, Indian Head, Maryland, 1968, 1971, 1974, 1979, 1982  
Surveillance, Decontamination and Escort School, Camp LeJeune, North Carolina, 1965  
Ammunition Technician School, Camp LeJeune, North Carolina, 1965  
40-hour HAZWOPER Training, 1989; Refresher, 2003  
8-hour HAZWOPER Supervisory Training, 1989

## **PROFESSIONAL REGISTRATIONS AND AFFILIATIONS**

Master EOD Technician, USMC, 1974  
US Army Corps of Engineers UXO Technician Data Base #0353  
Society of American Military Engineers  
International Association of Bomb Technicians and Investigators (IABTI)  
Who's Who Worldwide Registry of Business Leaders (1994/95 Distinguished Member)  
National Association of Ordnance Contractors (NAOC) (1996-Present)

- NAOC Vice President (2001, 2002, 2003)
- NAOC Chairman of Safety Committee and the Training & Standards Committee (1998)

## **EMPLOYMENT HISTORY**

2003 – Present: ECC, Denver, Colorado, Senior Manager/Program Manager  
2002 – 2003: SAIC, Oak Ridge, Tennessee, Senior Program Manager  
1998 – 2002: Nasus Holdings, LLC, Huntsville, Alabama, Executive Vice President/General Manager  
1996 – 1998: American Technologies, Inc., Oak Ridge, Tennessee, Director  
1994 – 1996: OES, Inc., Gainesville, Florida, Vice President/Operations Manager  
1987 – 1994: EOD Technology, Inc., Oak Ridge, Tennessee, President and CEO  
1985 – 1987: Lamothe & Associates, Fredericksburg, Virginia  
1986 – 1987: EG&G, Alexandria, Virginia, EOD and Anti-Terrorism Training Manager  
1965 – 1985: US Marine Corps



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## **RICHARD M. GIOSCIA, CIH, CSP, CHMM, QCM**

### **SUMMARY OF EXPERIENCE**

Mr. Gioscia has more than 22 years of experience managing ESH&Q programs in three applicable business sectors: environmental remediation, waste management, and chemical manufacturing. He has demonstrated expertise in achieving long-term loss prevention and control program objectives, developing effective policies and standards, performing site inspections and program audits, and managing hazardous and radioactive materials.

### **PROFESSIONAL EXPERIENCE**

**ECC, Lakewood, Colorado (2003-Present).** As Vice President, ESQ Programs, responsible for Corporate Safety and Quality Programs including program development, review and approval of project safety and quality plans, staffing, audits, and ECC's continuous improvement programs. ECC received the National Safety Council Perfect Record Award for completing the year without a lost time injury or illness.

**USACE New England TERC, Falmouth, Massachusetts (2003-2004).** Served as contract CIH. Performed two audits at the site and coordinated process safety review for thermal treatment unit. Reviewed and revised Program Health and Safety Plan. Leading OSHA VPP initiative.

**US Navy, NAVFAC PACDIV, Hawaii and Pacific Rim (2004).** Health and Safety Manager for the Program. Led development of program safety and quality plans.

**US Navy, Barbers Point, Oahu, Hawaii (2003-2004).** Health and Safety Manager. Coordinated process safety review for thermal treatment unit and performed two audits at the project.

**Foster Wheeler Environmental Corporation (1994-2003).** As Executive Director, ESH&Q Programs, administration and oversight for all ESH&O activities of the company and its associated projects for the DOE and DOD. Responsible for ensuring management systems meet ISO 14001 criteria and established targets and objectives are achieved. Oversees and supports Integrated Safety Management Systems on all projects. Developed comprehensive health and safety program manual; instituted loss control program which reduced recordable injury rate by 50% and workers compensation costs by 75% within 1 year; and developed standardized training programs for supervisors and safety officers. Provided health and safety oversight, reviewed and/or approved health and safety plans, and has had auditing responsibility for the following projects:

**Rocky Mountain Arsenal, Commerce City, Colorado (1997-2001).** Served as ES&H Manager on this \$1.2 billion cost plus award fee contract, which upon completion, will transition into the nation's premier urban wildlife refuge and sanctuary. Led the project's successful efforts to obtain OSHA VPP Star designation in 1999, the only environmental remediation project to receive this designation. Worked directly with the client, a project staff of more than 30 ES&H specialists, up to 200 PMC staff, and 250 subcontractors, ensured all ES&H expectations were met at this former chemical weapons manufacturing site. Implemented the guiding principles and core functions of ISMS, including using risk management tools for loss control management. For example, the site Corrective Action management System is now a paperless Window-based reporting tool that links corrective actions to ISMS requirements. Developed the sitewide ES&H Plan and Hazardous Waste Management Plan along with the implementation procedures. As lead on the sitewide Chemical Warfare Material Safety Plan, tailored requirements to define a specific





approach to integrate operations and safety into work. This plan played a crucial role in safely handling and clearing four M139 bomblets containing the Sarin nerve agent. Shaped specific subcontractor requirements to provide uniform plan implementation, leaving less room for interpretation and thereby establishing high safe work standards. Developed orientation and site safety rules in Spanish and English to support hiring a diverse work force. The project received the National Safety Council Perfect Record Award in 1998. No NOV's or reportable spills occurred on the project. Oversaw the current ES&H Manager as part of overall corporate responsibilities.

**USACE, New England TERC, Massachusetts and Connecticut (1994).** As Safety and Health Director, responsible for all S&H programs on this \$260 million multi-project, cost reimbursable, turnkey remediation and construction services contract. Performs project and subcontractor safety audits for continued improvement and to benchmark performance. Streamlined the corporate safety inspection checklist to incorporate site-specific hazards and risks and worked with the corporate medical consultant to tailor medical monitoring requirements to appropriate levels, thereby reducing costs. As a result of commitment to ZIP, Foster Wheeler and subcontractor staff achieved more than 700,000 hours at the Silresim and Stratford project sites without incident, and received two National Safety Council Awards and the 1996 USACE Contractor of the Year Award for Safety for work at the Stratford residential properties and Raymark CERCLA sites.

**USACE, Philadelphia District, Bridgeport Rental and Oil Service, Logan Township, New Jersey (BROS) (1993-1996).** Project involved lagoon dewatering, excavation, incineration, wastewater treatment and stabilization. Multi acre site with thousands of yards of contaminated sludge. Responsible for all safety and health programs and initiatives on this \$175 million fixed price project to remediate, remove, and thermally destroy PCB-contaminated sludges and sediments from a 13-acre waste site. Work was performed in Personal Protection Levels D, C, and B. Through work sequencing and other graded approaches, the most significant safety and health risks were mitigated early, reducing the level of PPE necessary and increasing productivity. Developed and delivered loss control training courses and awareness training for subcontractors and site superintendents. Through the ZIP initiative and loss control management practices, line management continuously improved safety performance during the last 3 years of the project. The OSHA recordable injury rate dropped 50% and worker's compensation rates were reduced 60%; no lost time accidents occurred among craft and subcontractors during the last 200,000 work hours; and the project received a National Safety Council Award. BROS was the first recipient of the District Engineer Quarterly Safety Award for Large Contractors.

**Agribusiness Technologies, Inc., Times Beach Remediation Project, Missouri.** This project involved remediation of a dioxin contaminated site and thermal treatment of dioxin contaminated material from the site as well as 26 other eastern Missouri sites.

**Chevron, Berkeley Heights, New Jersey.** Project involved the installation of groundwater collection systems and treatment plants, excavation, installation of sheet piling and slurry walls, and, closure of lagoons.

**Lackawanna.** Excavation of large hazardous waste/municipal waste landfill. Project involved excavation of materials, utilization of conveyors to move material out of the landfill, temporary storage of material, sampling, and off site shipment of waste.

**Picatinny Arsenal, New Jersey.** Excavation and stabilization of lead contaminated sludges using pug mills.



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**NJDEP, Burnt Fly Bog, Marlboro, New Jersey.** Project involved stabilization and off-site disposal of lagoon sludge contaminated with lead and PCBs, excavation and off-site disposal of contaminated soils, and regrading, capping, and vegetation.

USEPA, Bob Creek Farm, Howell Township, New Jersey. Excavation, incineration, and stabilization of organic contaminated soils.

**Pfizer.** Excavation of lead and organic contaminated soils. Excavation was 50 ft. deep by 50 ft. wide and long.

**Model City.** Provided process review, construction oversight, and start-up assistance for \$6 million stabilization facility which included both batch and pug mill stabilization.

**Chemical Waste Management, Princeton, New Jersey (1988-1993).** As Regional and Area Health and Safety Manager, established environmental, health and safety (EHS) program standards and procedures; provided training and leadership to ensure effective program implementation; developed process safety programs, and conducted process safety reviews. Provided guidance, interpretation, and training on land disposal restriction regulations; performed environmental assessments of non-CWM treatment and disposal facilities; developed EHS plans for major remediation projects which have included landfill closures with slurry, lagoon closures, underground storage tank removal, and stabilization. During this time, implemented loss control programs which reduced incident rates by 40 percent and compensation claims by \$1 million per year while the region doubled in size. Completed design reviews and worked as a startup team member for an \$8 million stabilization facility. Integrated EHS programs which resulted in improved understanding of program objectives and efficient staff utilization. For international projects, adapted US programs to meet the needs of operations in Mexico and Saudi Arabia.

**M&T Chemicals, Health and Safety Director/Manager of Safety and Industrial Hygiene/Industrial Hygiene and Safety Engineer (1981-1988).** Responsible for safety and health programs at eight locations with 1,500 employees. Wrote corporate safety and health policies and hazard communication manuals; performed annual health and safety audits; developed a corporate risk assessment program for batch and continuous processes; established product stewardship programs; managed FIFRA re-registration/special review programs for a key product line; provided industrial hygiene consultation to customers, and coordinated the CMA CAER program.

Completed a five-year program that reduced the OSHA recordable rate from 12.1 to 1.9. Conceptualized and managed the development of a chemical information database to meet SARA deadlines, and coordinated the computerization of MSDSs and product labels for compliance with the OSHA Hazard Communication Standard. Managed within budget \$3 million of noise control and ventilation projects.

**US Department of Labor, OSHA, city, state (1978-981).** As Industrial Hygiene Compliance Officer, participated in more than 100 health and safety compliance inspections in Colorado and Pennsylvania.

## **EDUCATION AND TRAINING**

MS, Environmental Health, Pennsylvania State University, 1977

BA, Biology, Lafayette College, 1975

40-hour HAZWOPER Training, 1994; Refresher, 2004

8-hour HAZWOPER Supervisory Training, 1995

First Aid/CPR, 2004





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USACE CQM training, 2004  
RCRA Hazardous Waste Management, 1999  
Competent Person Excavation and Trenching, 1999  
Implementing Behavior Based Safety, AIHCE, 1998  
Waste Management Training, 1996  
Loss Control Seminar for Management, International Loss Control Institute, 1994  
Industrial Hygiene Air Sampling Course, Chemical Waste Management, 1993  
DOT HM-181 Training, Chemical Waste Management, 1993  
Process Safety Review Short Course for Team Leaders, 1993  
Occupational and Environmental Radiation Protection Short Course, 1992  
Hazardous Waste Management for Small Quantity Generators, AIHA PDC, 1992  
Process Hazard Review Short Course, DuPont, 1992  
Environmental Regulations Short Courses, 1990 and 1991  
OSHA 24-hour Emergency Response Training, 1990  
TSDF Operations Short Courses, Chemical Waste Management, 1988 and 1990  
PCB Compliance Short Course, Executive Enterprises, 1989  
Designing for Fire Safety and Hazard Control Short Course, 1989  
Project Management Fundamentals Short Course, Chemical Waste Management, 1988  
Industrial Hygiene Management Course, AIHA, 1984  
Biological Monitoring in the Workplace Short Course American Society of Law and Medicine, 1983  
Hazardous Chemicals Safety Seminar, J.T. Baker, 1983  
Comprehensive Review for Industrial Hygiene Professionals, University of Cincinnati, 1982  
Principles of Industrial Ventilation, USDOL-OSHA, 1979  
Recognition, Evaluation and Control of Ionizing Radiation, USDOL-OSHA, 1979  
Advanced Industrial Hygiene Course, USDOL-OSHA, 1978  
Advanced Compliance Course for Industrial Hygienists, USDOL-OSHA, 1978  
Training Course, USDOL-OSHA, 1978  
Initial Compliance Course for Industrial Hygienists, USDOL-OSHA, 1978  
Hearing Testing in Industry Seminar, Pennsylvania State University, 1977

## **PROFESSIONAL REGISTRATIONS AND AFFILIATIONS**

Certified Quality Manager (#6728), 2002  
Certified Hazard Materials Manager (#4745), 1994  
Certified Safety Professional, (#7195), 1983  
Certified Industrial Hygienist, (#2219), 1982

## **EMPLOYMENT HISTORY**

2003 – 2004: ECC, Lakewood, Colorado, Vice President, ESQ Programs  
1994 - 2003: Foster Wheeler Environmental Corporation, Commerce City, Colorado, Executive Director, ESH&Q Programs  
1988 – 1993: Chemical Waste Management, Princeton, New Jersey, Regional EHS Manager  
1981 – 1988: M&T Chemicals, Corporate Director of Health and Safety  
1979 – 1981: US Department of Labor – OSHA, Industrial Hygiene Compliance Officer



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## JOHN L. BOWLES

### SUMMARY OF EXPERIENCE

Mr. Bowles has 8 years of experience in senior explosives safety program management and policy development, concurrent with his 25 years of EOD/UXO experience. Mr. Bowles is a UXO Project Manager and also manages health and safety activities associated with UXO/OE projects. He is responsible for executing, preparing and implementing project work plans, health and safety plans, and explosives safety submissions. He conducts UXO project fieldwork, field safety audits, leads daily tailgate safety meetings that outline provisions for unique UXO operations, and authors UXO SOPs. Mr. Bowles develops, implements, and maintains UXO safety procedures in strict compliance with all DOD explosive safety regulations, and stays abreast of DoD explosives safety, munitions response, and sustainable range management policy development efforts.

### PROFESSIONAL EXPERIENCE

**PACDIV Navy Unexploded Response Contract (NURC), \$50 million (2002-Present).** Project Manager for two CTOs under this 5-year contract. At Former NAF Adak Island, Alaska, (\$6.7 million), developed revisions to a Remedial Action Design Work Plan, SSHP, and QC Plan. Began field work that included conducting geophysical surveys and using survey data to intrusively investigate targets selected as potential MEC items in accordance with the RADWP. During the field work, ECC was tasked to conduct a Technology-aided and Visual Surface Clearance (TAVSC) for specific areas to optimize risk reduction within the 2004 field season; 5,613 target anomalies were intrusively investigated, and 289 items (60 UXO and 229 AO) were located and disposed.

**NAVFAC, Former Mare Island Naval Shipyard, Vallejo, California (2002-Present).** Senior Manager, as well as OE/UXO Safety Manager, for the UXO projects at the Former Mare Island Naval Shipyard and development of the Navy's Operational Range Clearance (ORC) Plans. Assigned as the UXO Division Health and Safety Manager as a result of unique and considerable Explosives Safety background within the Department of Defense (DDESB). Treatment of contaminants and explosive soil using low temperature thermal desorption, Parsons, Kansas, providing explosives safety support to myriad other ECC UXO projects.

**USACE Kansas City District, PRAC (2002-2003).** As OE/UXO Safety Officer, ensured implementation of the explosives safety program and SSHPs for OE work conducted under the PRAC. Audits site safety compliance and has the authority to stop work, if necessary. Conducts hazard analyses and enforces personnel limits and safety exclusion zones. Reviews all explosives safety submissions and approves them prior to site mobilization for quality and compliance with USACE contract requirements, corporate SOPs, and DoD, Federal, state and local regulations.

**USACE New England District, Massachusetts Military Reservation, TERC, Falmouth, Massachusetts (2002-Present).** As UXO Safety Officer, oversees the execution, development and implementation of a project safety plan in compliance with pertinent codes and regulations under a \$2 million TO at MMR. Reviewed and approved plans prior to mobilization. Reviewed and approved OE/UXO documentation, including SSHP and explosives safety requirements. Assessed operational hazards and risks. Technical and UXO safety policy resource for onsite managers and project personnel for UXO work. Conducted an onsite safety meeting.



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**US Navy WESDIV, Remedial Action Contract, Coronado Island, California (2002).** As UXO Safety Manager, responsible for the coordination of project data management and technical review of work plans, safety plans, and a site assessment report. Enforced site S&H requirements for six UXO personnel conducting intrusive investigations to locate, identify, and remove OE/UXO and debris.

**US Navy, Navy UXO Removal Contract (NURC), Yokosuka NB, Japan (2002).** As UXO Safety Manager, enforced the UXO safety plan during cleaning and removal of small arms ammunition, OE, and OE scrap from 2,300 linear feet of drainage and suction tunnels. Provided safety and UXO technical support to the PjM and UXOQCS during the cleaning and screening of 191 cubic meters of sediments, ammunition, OE, and OE scrap through 1-4-inch screens.

**DoD Explosives Safety Board, Alexandria, Virginia (1999-2002).** As UXO/EOD Action Officer, instrumental in development of DOD explosives safety policies, concepts and procedures. Initiated and conducted DDESB explosives safety surveys for UXO response actions, reviewed explosives safety submissions, coordinated Navy and EOD explosives safety issues. Participated in senior DoD policymaking for UXO response actions (Range Rule, UXO Management Principles and Munitions Response Directive, AEDA/MPPEH Policy Directive). Worked closely with USACE, US Navy Ordnance Safety & Security Activity, Naval EOD Technology Division, USEPA and state environmental regulators.

**EOD Group TWO, Norfolk, Virginia (1996-1999)** As Chief Staff Officer, managed and directed EOD operational forces, budget (\$6 million/year), manpower levels, equipment and maintenance for all US Navy EOD forces operating in the Atlantic, Mediterranean, and Persian Gulf. Significant operations included humanitarian demining and UXO responses in Bosnia and Africa, forward and deployed force protection, US Secret Service support, TWA 800 salvage/recovery operation and joint/combined EOD operations. Improved operational, personnel and budget efficiencies during DoD right-sizing efforts to safely achieve more with less.

**EOD Mobile Unit TWO, Norfolk, Virginia (1994-1996).** As Commanding Officer, led US Navy's largest EOD mobile unit (250 people) with 21 mobile and mine countermeasures detachments and 9 shore detachments. Directed readiness and deployment of EOD forces in response to requirements for shipboard and forward deployment, force protection, US Secret Service, and joint/combined operations. Directly approved all command qualifications for positions such as, Range Safety Supervisor, Demolition and Burn Area Supervisors, Diving Supervisor, and Parachuting Operations Jumpmasters where Safety Requirements were paramount to command success. Established an aggressive bi-lateral exercise program for forward-deployed units to more significantly contribute to operational objectives, participate in peacetime engagement strategy, and improve personnel experience levels.

**Indian Head Division, Naval Surface Warfare Center, Indian Head, Maryland (1991-1994).** As Chief Staff Officer, directly managed 1,800 people assigned to all overhead departments, which included Safety, Public Works, Human Resources, and Supply functions. Chairman, OSH Council which executed a robust and proactive program of safety management, inspection, response and education. This major shore installation develops and manufactures energetic materials including rocket motors, propellants and warheads, executing a \$240 million budget. Dedicated to program management with strong focus on customer (costs/schedule), production innovation, personnel development and explosives safety. Improved environmental management and natural resources planning amid increased regulatory challenges. Re-engineered installation business and operational processes to remain competitive in challenging DoD industrial environment throughout the Base Realignment and Closure (BRAC) process.



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**EOD Training & Evaluation Unit ONE, Barbers Point, Hawaii (1989-1991).** As Commanding Officer, directed EOD training for shipboard and forward-based detachments, and mine countermeasures units operating in the western area of responsibility (Mississippi to Kuwait). This command of 60 senior personnel also designed and executed evaluation criteria for development and testing of new EOD equipment. Additionally selected for assignment as Staff EOD and Mine Counter Measures Advisor to Commander, Middle East Forces during Operation DESERT STORM. Coordinated multinational MCM operations, which provided vital intelligence, restored operability to Kuwaiti port facilities, and reduced threat to vital Persian Gulf naval operations.

**EOD Mobile Unit FIVE, Subic Bay, Republic of the Philippines (1987-1989).** As Executive Officer, supervised planning and execution of numerous operations and exercises throughout the Western Pacific. Worked personally with governments and representatives from Japan, Korea, Thailand, Malaysia, Australia, Singapore and the Philippines. Improved interoperability through increased technical understanding and development of innovative and effective responses to operational challenges.

## **EDUCATION AND TRAINING**

MS, General Administration, Central Michigan University, 1991

Graduate of NAVSCOLEOD, 1981

BS, Biological Oceanography, University of Washington, 1977

Master EOD Technician, 1987

Safety Trained Supervisor (STS), 2002

40-hour HAZWOPER Training, 2002; Refresher, 2003

8-hour HAZWOPER Supervisor, 2002

## **PROFESSIONAL REGISTRATIONS AND AFFILIATIONS**

National Association of Ordnance Waste Contractors' Government Affairs Committee, Member

## **EMPLOYMENT HISTORY**

2002 – Present: ECC, Virginia Beach, Virginia, Program Manager

1970 – 2002: US Navy, various locations, worldwide, retired Captain, Commanding Officer



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## JEFFREY A. VIEBROCK, PG

### SUMMARY OF EXPERIENCE

Mr. Viebrock has over 16 years of project management experience on RCRA- and CERCLA-regulated projects including 7 years of project management experience on MEC projects for both government and commercial clients. His management experience on MEC projects is wide-ranging and includes managing UXO clearance preliminary to a major construction project, managing surface UXO identification and risk assessment to support an environmental impact statement, managing an underwater detection, location and removal action, planning and reporting for the only UXO clearance operation to result in a FOST and providing GIS support for an operational range clearance model. Mr. Viebrock is a key member of the corporate quality team that develops QC programs and planning documents that support MEC-related projects. He is also a key team member providing GIS support to After Action Reports, presentations for government and stakeholder organizations and preparing Explosives Safety Submittals.

### PROFESSIONAL EXPERIENCE

**ECC, Lakewood, Colorado (2/05-Present).** Project Manager for the former Pantex Ordnance Plant FP ID/IQ contract, managed Comprehensive Environmental Contract studies and remediation on the MECCISS project. Project involved fuel remediation. Utilizes Risk Management experience as part of project manager duties as he scrutinizes cost, quality, schedule information and safety.

**The Forrester Group, Springfield, Missouri (10/03-2/05).** Principal and project manager responsible for strategic direction and technical project direction on multiple Union Pacific Railroad projects ranging from emergency response actions governed by state CERCLA agencies to federally-regulated RI/FS projects in Oklahoma, Idaho, Missouri and Illinois. Additional corporate responsibility included formulating and implementing a formal project delivery group tasked with streamlining and modernizing the company's current project delivery system(s).

**ECC, Louisville, Kentucky (3/02-4/03).** Project Manager.

**US Navy Unexploded Ordnance Response Contract (NURC), Worldwide.** Project Manager for 2 task orders valued at over \$1 million under a 5-year, \$50-million worldwide contract that supports investigations, removal, and destruction of OE items. Projects under this contract include:

**Former NAS Adak, Adak Island, Alaska** – Developed the After Action Report for the 2001 field season.

**MCAS Miramar, San Diego, California** – Supported the preparation of a Site Assessment Report presenting field data results and presenting cost estimates of further investigation and removal at three prospective military family housing sites with former impact ranges. Assumed Project Manager duties in 2003.

**MCAGCC 29 Palms, California** - Project manager for project involving clearance and removal of UXO and construction support on active Marine Corps Air Ground Combat Center through project closeout. Currently planning UXO stages for the clearance of 40 acres to a depth of 4 feet of inactive range area in support of a MILCON project to expand the existing Central Magazine Area at 29 Palms.

**NWS Concord, Concord, California** – Provided support in developing planning documents and After Action Reports for this underwater UXO clearance project. The project involved clearing an area adjacent to Pier 2 at NWS Concord for future construction repair work and pile replacement.

**US Navy (MINS) Mare Island Naval Shipyard, Vallejo, California** – Developed an OE Conceptual Site Model for offshore sites. Provided GIS support and technical writing skills in the development of planning documents to support an underwater geophysical survey.



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**USACE Louisville Pre-placed Remedial Action Contract, Blue Grass Army Depot, Richmond, Kentucky.** As project manager, oversaw initial site reconnaissance, client scoping meetings and completion of planning documents for this \$510,000 project.

**ADVENT Environmental, Inc., Louisville, Kentucky (11/92-2/02).** Vice President/Principal/Director of Engineering/Science responsible for developing and maintaining the company quality and career development program. Company-wide technician resource for engineering/science information. Project Manager/Principal-in-Charge on Department of Defense-contracted UXO projects since 1997. DDSEB Submittals. Managed and directed multiple projects ranging in scope to \$12 million, projects typically involved multiple locations in separate states. Extensive experience in RCRA, State CERCLA and Voluntary Cleanup Programs. Designed, installed and maintained corporate Wide Area Network. GIS and Groundwater Flow and Contamination Transport Modeling.

**Law Companies, Inc., Louisville, Kentucky (6/88-10/92).** As Senior Geological Engineer, managed an 11-person department responsible for complex site assessment throughout the southeastern US. Served as a technical resource for field methods of site assessment, groundwater flow and contaminant transport modeling. Managed large-scale site assessment and remediation design projects regulated under RCRA, TSCA and State CERCLA. Developed and presented client-ready proposals and reports to principals within the firm. Gained valuable field experience conducting site assessment work in the Piedmont, Coastal Plain and Valley and Ridge Geological provinces.

**University of Missouri-Rolla, Rolla, Missouri (1985-1988).** As Research Assistant/Graduate Research Assistant, conducted high pressure waterjet testing on the sensitivity of solid propellant used in the second stage of the Peacekeeper missile under contract to Morton-Thiokol. Directed research effort in the field of efficiency testing for patent. Researched and co-authored a paper dealing with the effect of high-pressure waterjets on human flesh. Presented at the 1989 International Waterjet Symposium in Sendai, Japan.

## **EDUCATION AND TRAINING**

MS, Geological Engineering, University of Missouri-Rolla, 1988

BS, Geological Engineering, University of Missouri-Rolla, 1986

40-hour HAZWOPER training, 1988; Refresher, 2003

8-hour HAZWOPER Supervisory Training, 1992

ECC Managing Government Contracts, 2003

## **PROFESSIONAL REGISTRATIONS AND AFFILIATIONS**

Registered Professional Geologist in Georgia (#887), 1992; Kentucky (#67), 1993; South Carolina (#1040), 1993; Virginia (#893), 1993; Florida (#1731), 1995

## **EMPLOYMENT HISTORY**

2005 – Present: ECC, Lakewood, Colorado, Project Manager

2003 – 2005: The Forrester Group, Springfield, Missouri, Principal

2002 – 2003: ECC, Louisville, Kentucky, Project Manager

1992-2002: ADVENT Environmental, Inc., Louisville, Kentucky, Vice President/Principal/Director of Engineering/Science

1988-1992: Law Companies, Inc., Louisville, Kentucky, Senior Geological Engineer

1985-1988: University of Missouri-Rolla, Rolla, Missouri, Research Assistant/Graduate Research Assistant





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## **FRANK J. CZAJKOWSKI**

### **SUMMARY OF EXPERIENCE**

Mr. Czajkowski has 25 years of MEC/EOD/UXO experience. He has over 13 years of MEC project management and FFP contract experience. He is a Master EOD Technician that meets all the qualifications capable of fully performing the functions of UXO Sweep Personnel and UXO Technicians I, II, and III.

### **PROFESSIONAL EXPERIENCE**

**Brooksville Turret Gunnery Range, Brooksville Florida.** As Project Manager, managed four UXO teams performing UXO avoidance, clearance to depth, and disposal operations plus two teams conducting geophysical survey using the EM61, and one team performing geospatial mapping as well as one brush removal team. Continued public involvement is a concern and required close coordination between the project team, the public and the municipality. Residential evacuations are required during intrusive and disposal operations on a daily basis because the area of concern comprises 138 acres located within a residential community. The munitions of concern are 2.36" rockets and the evacuation distance is 806 feet. Responsible for the development of the approved work plans and procedures, and complying with Federal, state, and local regulations. He was responsible for resourcing the project and developing the technical approach.

**USACE Louisville District, Hohenfels, Germany (4/04-6/04).** As Project Manager, managed over 60 German Nationals to clear 11 hectares of land to be used as future troop maneuver areas. Developed planning, schedule, and risk management strategies. Performed as the full-time, on site, single point of contact to the USACE throughout the project duration. Worked closely with the USACE, site safety and field personnel to ensure compliance to approved work plans, and contract requirements. Established immediate and upfront communication with the USACE, while providing feedback on monthly progress and cost reporting to monitor schedule and overall performance.

**Ravenna Army Ammunition Plant, Ravenna, Ohio (12/98-11/00).** As Senior UXO Supervisor responsible for cleanup of Demolition Area II at the Ravenna Army Ammunition Plant. Project consisted of surface and subsurface locating, excavating, sifting, and removal of UXO for the disposal site. Upon completion, a total of 40,000+ live UXO items were recovered and over 60,000 pounds of range residue from a 1½ acre site. Supervised surface and subsurface removal work in accordance with approved work plans. Coordinated multiple work teams, while sequencing parallel work activities to maximize efforts and resources.

**Arizona Electric & Power Company Tucson (AEPC), Arizona (9/98-11/98).** As Project Manager, managed project involving UXO avoidance, geophysical survey using the EM-61, and clearance from the former 4-acre, Sahaurita Bombing Range Site, proposed for the construction of a power company substation. Developed work plans and schedule, and served as the single point of contact to AEPC and regulators. Worked closely with site safety personnel and field technicians to ensure compliance to approved work plans and procedures, and Federal, state, and local regulations.

**US Air Force, Eagle, Colorado (7/97-9/97).** As Project Manager, responsible for the recovery of an A-10 Aircraft that crashed into Gold Dust Peak carrying, 4-Mk-82 bombs – dual fuzed and associated ejection seat, decoy flares, chaff, and 30 mm cannon munitions. Project required the recovery of the



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aircraft debris, UXO, and human remains. This high-hazard work involved detailed planning and risk management strategies to overcome a work environment consisting of steep mountainous terrain, requiring daily rappelling from helicopters and climbing slopes varying from 70 to 90 degrees. Established immediate and upfront communication with the USAF and regulators to integrate planning, schedule, and coordination, while providing a rapid progress and response mechanism to safely performing all field activities.

**Nuclear Test Facility, Tonapah, Nevada (8/95-10/95).** Senior UXO Supervisor for the detection, removal, and disposal of sub-munitions from an area adjacent to Antelope Test Range. During this project over 2,000 bomblets, projectiles and bombs were disposed of. Soils were contaminated with lead and low level depleted uranium.

**Naval Weapons Station, Yorktown, Virginia (4/94-12/94).** Senior UXO Supervisor for the UXO detection and removal of various old style bombs, sea mines, depth charges, torpedoes and missiles. Ordnance items were buried in a land fill in the 50's and were discovered during a characterization project. During this project over 5,000 UXO items were removed, demilitarized, and safely disposed.

**Former Raritan Army Arsenal, Edison, New Jersey (6/92-8/92).** Performed as the UXOSO for an unexploded ordnance location, removal, and disposal project. Project required remediation of buried projectiles of varying sizes. Within the first six weeks over 600,000 projectiles were unearthed. Also discovered chemical warfare material in several locations, the site was sampled and remediated to remove the chemical warfare material.

**United States Department of State, Washington, DC (12/86-2/89).** As lead Instructor, provided classroom instruction and practical training exercises in support of the "Anti-Terrorist Assistance Program" (ATAP). Instructed technical subjects related to VIP security. Efforts were focused on terrorist attacks from stand off weapons systems. Managed staff instructors, course content, classroom facilities and explosives range during practical training scenarios including the use military and commercial explosives and improvised explosives made from off the shelf chemicals. Instructed bomb disposal procedures, recognition of explosives and hazardous devices. Taught X-ray interpretation and screening of packages for hazardous items.

**Other Relevant UXO Experience:**

**Olin Corporation, Alton, Illinois (3/96-7/96).** As Senior UXO Supervisor, supervised activities involving detection, excavation, removal, packaging, and incineration of explosive waste. The 32,000 pounds of propellant and DNT explosives were buried in 55-gallon drums on a hillside outside of the plant. Conducted geophysics to locate the drums and excavated the site to facilitate removal and packaging. The explosive material required special opening procedures and decontamination prior to transporting to the incinerator. Supervised contaminated soil characterization, removal of soils contaminated with lead, arsenic, and petroleum, and ensured safe and compliant removal from the site and transported to an approved treatment facility.

**Former Erie Army Ordnance Depot, Port Clinton, Ohio (9/93-12/93).** As Project Manager, managed the investigation, removal, and disposal of UXO along a 3-mile stretch of beach bordering Lake Erie and the National Guard rifle and pistol ranges. During this project, over 5,100 UXO items were disposed of or demilitarized and turned into DRMO as scrap. Developed, managed, and approved work planning, schedule, and served as the single point of contact to the USACE and regulators to communicate daily progress and ensure project compliance to all federal, state, and local regulations.



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**Summit Equipment and Supply, EPA “Superfund Site” Akron, Ohio (10/92-4/93).** Single point of contact, responsible for planning, scheduling and managing activities involving the disposal of UXO from a commercial salvage yard. A total of 17,195 UXO items contaminated with PCBs and Dioxins were removed, decontaminated, and transported to Ravenna Ordnance Depot for disposal. The soil was contaminated with lead and arsenic and was excavated, packaged, and transported off-site for proper disposal. Established immediate and direct communication and coordination with USACE and site regulators to provide clarity of the remediation removal strategies, clean-up criteria, risk hazard analyses, and risk reduction. Provided monthly progress and cost reporting to track overall performance.

**Aquatec “Superfund” Site, Greer, South Carolina (2/92-3/92).** Single point of contact, responsible for planning, scheduling, and management of work, including chemical characterization, removal, and disposal of various munitions, initiators, and hazardous chemicals. The soils were extensively contaminated with lead, petroleum, arsenic, and initiating explosives and residues. Worked closely with the client, regulators, and site safety personnel to integrate characterization data, contaminated soil removal strategy, and overall risk management approach.

**UXO Investigation, Fort Segarra, St. Thomas, USVI (9/91).** As Project Manager, composed the Work Plans, Health and Safety Plan, and SOPs for on-site operations under a subcontract agreement with Ebasco Services. The site was suspected of containing numerous chemical munitions and dispensers. Served as the single point of contact for this TO and maintained open, upfront communication and coordination with USACE and regulators.

## **EDUCATION AND TRAINING**

US Navy EOD School, Indian Head, Maryland 1979  
Master EOD Technician, 1985  
USACE Construction Quality Management for Contractors (#0862), 1997  
40-hour HAZWOPER Training, 1990; Refresher, 2003  
8-hour HAZWOPER Supervisory Training, 2003  
CFR 1910-126 Competent Person, 1995  
OSHA 60-hour Confined Space Supervisor/Instructor Certified, 1995

## **PROFESSIONAL REGISTRATIONS AND AFFILIATIONS**

Society of Military Engineers (#E789j862), 1997  
International Society of Explosive Engineers (#9903165), 2000

## **EMPLOYMENT HISTORY**

2004 – Present, ECC  
2002 - 2004: Malcolm Pirnie, Inc., Program Manager  
1998 - 2002: ADVENT Environmental, Charleston, South Carolina, Senior Project Manager  
1992 - 1998: CMS Environmental Inc., Tampa, Florida, Senior Project Manager/Proposal Writer  
1988 - 1989: United States Secret Service, White House, Washington, DC, Technical Security Specialist  
1986 - 1988: United States Department of State, Washington, DC, Lead Instructor  
1965 - 1986: US Navy, Commissioned Officer



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## RAYMOND J. McMANUS

### SUMMARY OF EXPERIENCE

Mr. McManus has extensive safety and health experience on UXO and hazardous waste sites. He has functioned as a site safety officer, senior UXO supervisor, and UXO technician III on survey, clearance and blow-in-place projects at DOD sites throughout the US and foreign munitions. He also has over 20 years of military experience dealing with training, recognition and disposal of ordnance explosive (OE) and improvised explosive devices.

### PROFESSIONAL EXPERIENCE

**AFCEE ENRAC, OE Risk Reduction on Range 220B, Hohenfels, Germany (3/03-1/04).** As UXO Safety Officer, analyzed UXO hazards; implemented and approved UXO safety plan; monitored UXO safety risks, hazards, and requirements; enforced personnel limits; and conducted safety inspections and audits. Project has zero lost-time accidents.

**USACE Sacramento PRAC, Fort Ord, California (2003).** UXO Tech III/SUXOS for \$500,000 project. Ensured safe operations during UXO avoidance, sweep, and metal removal actions from a 19-acre firing range with no lost-time accidents. Monitored and inspected soil processed through a screen shaker. Enforced safety and work plan compliance during surface and subsurface ordnance investigations and removals to depths of 6 feet; provided UXO escorts, surveillance, and avoidance during water sampling and construction; conducted surfaced and subsurface magnetometer UXO surveys and borehole checks in support of well drilling.

**USACE Omaha PRAC, Iowa Army Ammunition Plant, Middletown, Iowa (10/02-12/02).** As Senior UXO Supervisor, supervised multiple project teams for UXO avoidance and MEC removal operations at four facilities treating MEC waste during HTRW remediation activities at two landfill areas. Supervised SSHP preparation and compliance. Executed stringent UXO supervision and daily site briefings across multiple project teams and locations. Project logged 160,000 labor hours with no lost-time accidents and received the 2000 USACE Omaha Safety Award.

**AFCEE Worldwide RAC, Massachusetts Military Reservation, Falmouth, Massachusetts (2002).** As UXO Technician III/SUXOS/UXOSO, analyzed UXO hazards and evaluated quality issues and safety risks on an hourly or as needed basis depending on UXO findings. Evaluated safety risks and conducted daily site safety briefings.

**USACE Louisville PRAC, Blue Grass Army Depot, Richmond, Kentucky (2002).** As Senior UXO Site Supervisor, supervised multiple teams performing avoidance and removal of OE, OE scrap, metals, and explosives under two TOs valued at \$1.2 million. Safely removed 100,000 pounds of OE and non-OE scrap and more than 450 live or suspected live ordnance items. Directed preparation and implementation of SSHP. Coordinated efforts with crews performing HTRW remedial construction and participated in the preparation of the final report. Retained authority to stop work if safety hazards or deficiencies were found. Logged zero lost-time accidents.



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**US Navy, Mare Island Naval Shipyard, California (2001).** As UXO Technician III/SUXOS, supervised a pilot study to verify accuracy and inspection of methods and equipment during the RI and VDS Test Program for offshore detection and location of UXO.

**US Navy NURC, Dry Dock 6 Remedial Action, Yokosuka, Japan (2002).** As UXOSO, Ensured safe operations during removal of OE/OE scrap from the discharge tunnels at the bottom of dry dock. Conducted bilingual safety briefings, with help from interpreter, for 56-member Japanese crew and two US contractors. Conducted oxygen/explosive gas/CO monitoring inside the two discharge tunnels. Project recorded zero lost-time accidents.

**US Navy, Ikego, Japan (2001).** As UXO Technician III, responsible for the safe operation and technical compliance of field operations. Conducted time critical removal and investigation operations.

**Fort Douglas, Utah (2001).** As Site Safety and Quality Control Officer, conducted OE detection and remediation operations.

**Dugway Proving Grounds, Utah (2001).** As Supervisor, responsible for ordnance avoidance operations.

**NAS Coronado, California (2001).** As UXO Supervisor, responsible for the ordnance avoidance operations.

**Umatilla Army Depot, Oregon (10/98-10/99).** As Health & Safety Officer/Sr. UXO Supervisor, responsible for the health and safety of all site personnel and operations during trenching and clearance activities. During site activities an OSHA inspection resulted in an excellent safety rating for the project. Supervised the site survey, clearance, and disposal of UXO for trenching operations to a depth of 25 feet. Performed blow-in-place for more than 5,000 pounds of UXO on this project.

**Dugway and Tooele Army Depots, Utah.** Senior UXO supervisor responsible for UXO avoidance during the installation of test wells.

**USACE, Camp Bonneville, Washington (1997-1998).** Senior UXO supervisor responsible for UXO blow-in-place operations at Camp Bonneville.

**MBA & Associates, City, State (1992-1994).** As Sr. Safety Officer/Writer, wrote and implemented more than a dozen site safety and health plans for UXO and hazardous waste projects complying with all OSHA requirements.

**BRJ the Third, Inc., City, State (1978-1992).** As owner and explosives project manager, provided safety and senior UXO supervisor support on dozens of UXO projects located throughout the US. Site safety officer for remediation of leaking oil barges in Port Arthur, Texas. Provided specialized explosives support for oil well fires.

**Various positions, US Army, various locations, worldwide (1962-1978)**

**Senior UXO Specialist, EDD Technical 1st. Division EOD, Vietnam** – responsible for EOD munitions operations, to include: munitions identification, render safe and disposal munitions identification, render safe and disposal technique of US and foreign munitions.



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***Officer in Charge, EOD MWSG-17, Vietnam*** – managed the activities of all EOD teams assigned to this Fighter Wing. Responsible for EOD munitions operations, including munitions identification, rendering safe, and disposal activities.

***Liaison/Senior Instructor, USMC, Ft. McClellan, Alabama*** – Planned, supervised, and conducted training in EOD chemical munitions operations, to include munitions identification, rendering safe, and disposal techniques. Instructed the US Army hazardous materials escort program.

***Officer in Charge, USMC, EOD units in Southeast Asia, Vietnam*** – managed the total USMC EOD effort. Developed and implemented EOD procedures. Supervised tasking and operations.

***Liaison/Senior Instructor, USMC, Redstone Arsenal, Alabama*** – planned, supervised, and conducted training in EOD chemical munitions operations, to include munitions identification, rendering safe, and disposal techniques. Instructed the US Army hazardous materials escort program.

## **EDUCATION AND TRAINING**

Graduate NAVSCOLEOD, 1962  
Drill Instructor School  
Explosive Ordnance Disposal School  
Nuclear Emergency Team Course, 1967  
Nuclear Emergency Team Operations, 1967  
Technical Escort, Hazardous Material (Toxic Chemicals), 1972  
Explosive Ordnance Disposal School Chemical  
Senior Chemical Accident/Incident Control Officer, 1972  
Senior Officer Nuclear Accident Course, 1977  
40-hour HAZWOPER Training, 1990; Refresher, 2004  
8-hour HAZWOPER Supervisory Training, 1990  
Construction Safety Training, 2004

## **PROFESSIONAL REGISTRATIONS AND AFFILIATIONS**

USACE UXO. No. 0321  
Institute of Explosive Engineers (IEE), Member  
International Association of Bomb Technicians and Investigators (IABIT), Member  
Licensed Blaster and Explosives User (BATF)

## **EMPLOYMENT HISTORY**

2001 – Present: ECC, Lakewood, Colorado, Senior UXO Supervisor  
1994 – 1998: UXB International, Inc., UXO Safety Officer/QC Specialist/Supervisor  
1992 – 1994: MBA & Associates, Senior UXO Safety Officer  
1978 – 1992: BJR the Third, Inc., Project Manager  
1962 – 1978: US Army Corps of Engineers, various locations, worldwide, EOD Technician





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## **TERRY RUTHERFORD**

### **SUMMARY OF EXPERIENCE**

Mr. Rutherford has over 33 years explosives and explosive ordnance safety responsibilities which include over 6 years of MEC operations safety experience. He has held a wide variety of safety positions with a commensurate variety in safety responsibilities worldwide. For 3 years, Mr. Rutherford held critical safety positions at the Massachusetts Military Reservation (MMR) where he provided safety supervision to two separate contractors performing multi-team, multiple-discipline activities including range cleanup, OB/OD area remediation, soil excavation and sifting, road clearance and burn pit remediation. Mr. Rutherford was the safety officer for decontamination and decommissioning (D&D) of a former explosives manufacturing facility at the Los Alamos National Laboratory. Prior to these safety duties, for 10 years, Mr. Rutherford held the position as Functional Manager for EOD at HQ, Strategic Air Command and later as EOD Functional Manager, HQ Air Force Material Command with responsibilities for explosives safety for 13 SAC EOD units and 4 EOD Flights with diversified missions to include R&D, range clearance, aircraft testing and nuclear support. He served concurrently as a member of the US Air Force Inspector Generals' staff with EOD and explosives safety responsibilities.

### **PROFESSIONAL EXPERIENCE**

**USACE NAE, TERC UXO Program, Massachusetts Military Reservation, Camp Edwards, Massachusetts.** As UXO Safety Officer, led to award of OSHA VPP Star status for the site. Provided safety supervision to a UXO staff of over 40 personnel and a 25-man comprehensive support staff of non-UXO personnel in multiple teams performing multiple tasks at multiple locations across this 29,000 acre site. Included in his daily supervisory duties were teams performing digital geophysical mapping and mag and flag ordnance detection and removal, soil excavation and sifting, and remediation of 26 burn/burial pits which yielded in excess of 20,000 munitions. In addition, he had safety oversight responsibilities for other non-UXO personnel from Federal, state and local regulatory agencies and for other subcontractor personnel. Supported an aggressive company-wide near-miss accident reporting system and provided the UXO-related input to the TERC-wide safety program by making presentations at the monthly safety meetings. Assisted the company UXO and IT departments in developing and implementing all-electronic documentation of safety audits and reporting, designing the electronic forms and implementing a paperless process for recording safety documentation at the site.

**HQ Strategic Air Command, Offutt AFB, Nebraska.** As Functional Manager/Superintendent, planned, programmed and established safety policy for 13 SAC EOD Flights covering all aspects of EOD operations including range clearances, aircraft safety, explosives storage safety, munitions disposal operations, support to civilian agencies and nuclear weapons support. He was the EOD staff assistant to the Inspector General's office responsible for explosives safety evaluation and input to accident investigations and aircraft crashes.

D&D of the Former Explosives Manufacturing Plant, Los Alamos National Laboratory, Los Alamos, New Mexico. As Explosives Safety Officer, wrote and validated Integrated Work Documents for removal and decontamination of HE vacuum lines, exhaust lines and processing equipment at this former explosives manufacturing plant located on a DOE facility. Developed the procedures to remove gross HE contamination from the interiors of the HE lines and exhaust pipes. Provided safety supervision to the



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removal and sectioning of all HE lines, exhaust pipes and related manufacturing equipment and supervised their safe transportation to the flashing facility.

## **EDUCATION AND TRAINING**

US Naval School, EOD, Indian Head, Maryland, June 1975  
40-hour HAZWOPER Training, 1999; Refresher, 2004  
8-hour HAZWOPER Supervisory Training, 2001

## **EMPLOYMENT HISTORY**

2003 - Present: ECC, Lakewood, Colorado, UXO Safety Officer/SUXOS  
2001 - 2003: Tetra Tech, Massachusetts Military Reservation, Massachusetts, UXO Safety Officer, UXO Tech III  
1999 - 2001: HFA, USAE, Illinois Ordnance Plant, Camp Grant, Illinois, UXO Tech III  
1970 - 1995: US Air Force, Worldwide Locations, EOD Technician/Functional Manager (SMSGT Ret.)



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## ANTHONY DODDS

### SUMMARY OF EXPERIENCE

Mr. Dodds has 33 years of EOD experience, including 14 years of safety officer and supervisory experience and knowledge on OE clearance operations at HTRW sites.

### PROFESSIONAL EXPERIENCE

**Advent, Vieques, Puerto Rico (4/05-3/06).** Served as the UXOSO ensuring strict compliance with local safety regulations. Established exclusion zones and conducted on-site training and daily safety briefings.

**ECC, Ft. Lewis, WA (11/04-12/04).** Performed as the dual-hatted UXOSO and UXOQC. Enforced compliance with the Site Safety and Health Plan as well as with federal, state and OSHA health and safety regulations. Supervised all quality control (QC) aspects of the project to ensure compliance with project plans and the scope of work as defined in the QCP

**ECC, Adak, AK (06/04-10/04).** As a UXO Technician III, performed surface and sub-surface anomaly acquisition and intrusive investigation on selected targets within a former live impact area.

**USA Environmental, Ft. Ord, California (11/03-4/04).** As UXO Technician III, supervised 20-person team, performed surface sweeping for explosive ordnance. In addition, supervised a six-person team, locating, excavating, identifying, and disposing of ordnance.

**USA Environmental, Ft. Ord, California (10/03-11/03).** As UXO Technician II, member of a six-person, locating, excavating, identifying, and disposing of explosive ordnance.

**ECC, Davis-Monthan AFB, Arizona (9/03-10/03).** As UXO Technician III, performed ordnance avoidance for soil sample teams and identified and disposed of explosive items located during sifting operation of burn pit residue.

**ECC, Ft. Lewis, Washington (7/03-8/03).** Served as the UXOSO for a six-person team, locating, excavating, identifying, and disposing of dud ordnance. Performed daily hazard briefings for site personnel. Established and enforce safety exclusion zones for MEC operations, implemented the SSHP, and conducted inspections to ensure compliance to all health and safety plans and procedures and Federal, state, and local laws and regulations.

**ECC, USACE Louisville District, Hohenfels, Germany (2003).** UXOSO for this \$1.2 million contract; time-critical risk reduction and OE clearance, removal, and onsite disposal of live projectiles on an active training range. Led safety initiatives and inspections to ensure seven project personnel adhere with work plans, safety program requirements, the SSHP, SOPs, safety codes, site-specific requirements, and applicable regulations. Supported explosive storage plan, work plan, OE administrative reports, and SOP development for onsite operations. Analyzed potential explosives operational risks, hazards, and safety requirements that could impact personnel and the surrounding environment.



**ECC, USACE Louisville District, Blue Grass Army Depot, Kentucky (2002).** As UXOSO, oversaw safety for multiple teams of up to 15 personnel during geophysics-aided surface and subsurface searches and accelerated OE scrap removal activities. Ensured subcontractors implemented proper safety techniques during scrap handling, shipping, land surveying, and vegetation clearance of 6 acres. Implemented the SSHP and OE program and verified work complied with S&H, DoD, Federal, state, and local statutes and codes, including OSHA requirements. Oversaw explosives and chemical soil sampling activities to inspect and verify proper safety precautions were followed.

**ECC, US Navy PACDIV, Dry Dock 6, Yokosuka, Japan (2002).** As EOD Technician III, cleaned and removed 191 cubic meters of small arms ammunition, OE, OE scrap, sediments, and asbestos from 2,340 liner feet of drainage tunnels, 240-foot suction tunnel, and a wet well using high-pressure washing equipment. Supervised, inspected, and verified that all onsite personnel, including work performed by other Japanese contractors (50 personnel) safety complied with a confined-space entry permit and OE procedures during dewatering, sifting and segregation of materials, oil-water separation, and final rinsing. Operated and maintained air monitoring equipment for airborne contaminants.

**ECC, NAVFAC PACDIV, NAF Adak, Alaska (2001).** As UXOSO, responsible for investigation, design, and removal of OE/UXO to help Navy close NAF Adak under BRAC and land transfer. Implemented the SSHP and enforced safety requirements for three geophysical survey teams and five UXO dig teams completing geophysical transects, detection of anomalies, and intrusive investigations at 90 sites. Analyzed OE operational hazards and risks, as teams conducted work on a variety of media, from rugged, remote, and mountainous terrain to ecologically sensitive habitat and endangered species, with extreme weather patterns.

**UXB International, Aberdeen, Maryland (1999-2000).** SUXOS for UXO clearance operations of a 35-acre area to allow for the installation and construction of a disposal plant. Implemented the SSHP and OE safety program to ensure the safe performance of six project personnel. Conducted daily site briefings to discuss safe clearance techniques, equipment use, and site hazards and risks.

**UXB International, USACE, Camp Bonneville, Washington (1998).** As SUXOS/UXOSO, supervised safety for six teams of six personnel working on 217 100x100-ft grids; checked and verified the correct equipment was properly used with the correct protective gear. Conducted daily inspections of all six teams working on multiple sites. Issued and followed up on the implementation of corrective actions.

**UXB International, Umatilla, Oregon (1995-1997).** As UXO Supervisor, conducted surface sweeps and sifting operations.

**UXB International, Buckley Range, Colorado (1997).** UXO Supervisor

**UXB International, Sioux Army Depot, Nebraska (1994).** As UXO Specialist, conducted identification and disposal of UXOs.

**EOD World Services, Kuwait (1992-1993).** Sweep Team Member.

**US Military Branch, Various Locations, Worldwide (1971-1991).**

**MCB Camp Lejeune, North Carolina** – Recalled to assist base personnel for mobilization of EOD technicians for Operation Desert Storm.

**NCOIC EOD Team,** – Coordinated all EOD operations for over 900 square miles of impact area, involving ground and air ordnance including sensitive-fuzed ordnance.



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***Asst. NCOIC 3rd EOD Platoon, Okinawa, Japan*** – Assisted in all phases of the EOD Platoon.

***MCD, EODTEHCEN***, – Verified new procedures and tools for EOD programs.

***EOD Team, Quantico, Virginia*** – Team member clearing impact areas of dud ordnance, providing training to State department, Secret Service, FBI, and local law enforcement agencies.

***3rd EOD Platoon, Okinawa, Japan*** – Team member clearing impact areas.

***1st EOD Platoon, Camp Pendleton, California*** – Team member clearing impact areas of dud ordnance.

## **EDUCATION AND TRAINING**

EOD School, 1971

USAESCH UXO No. 0316

40-hour HAZWOPER Training, 1993; Refresher, 2004

8-Hour HAZWOPER Supervisor Training, 1995

USEPA Hazardous Materials Response, 1993

Safety Office Course, 1997

## **EMPLOYMENT HISTORY**

06/2001 – Present: ECC, Lakewood, Colorado, UXO Supervisor

02/1992 – 06/2001: Independent Contractor, Various Locations, Worldwide, UXO Safety Officer, Supervisor Specialist

10/1971 – 05/1991: US Military Branch, Various Locations, Worldwide, EOD Technician

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## ALEX KOSTERA

### SUMMARY OF EXPERIENCE

Mr. Koster has over 8 years field geophysical investigation experience which includes MEC investigations at 9 sites. Mr. Koster has particular, relevant experience in geophysics QA/QC as it relates to the McClellan MEC projects, currently acting as independent 3d party QA representative to MES for the McClellan Alpha Area Supplemental EE/CA. He has additional experience as independent QC geophysicist for data collected on the 220-acre Tourtelot Project in Benecia, California. Mr. Koster's field savvy won him the opportunity to participate in the field demonstration of the newly developed, multiple time gate EM63 TDEM and advanced processing software at the technology demonstration at Kahoolawe Island, Hawaii. Finally, Mr. Koster was instrumental in helping create the draft QC Manual for UXO geophysical investigations being prepared by the U.S. Army Engineering and Support Center Huntsville, Alabama.

### PROFESSIONAL EXPERIENCE

**3d Party QA, Alpha Area Supplemental EE/CA, McClellan, Alabama, MES.** As an independent QA, Mr. Koster participated in the review of all aspects of the subject area geophysics, inspecting raw and processed geophysical data, daily QC tests, contour maps, target selections and lists, reacquisition procedures, dig results and overall compliance with the Site-wide QA Plan. In his capacity, he worked closely with the MEC contractor and geophysics subcontractor, prime contractor and regulatory agencies.

**Field Geophysicist, Underwater UXO Clearance at NWS Concord, California, ECC.** Using NAEVA experience gained from participation in an ECC underwater detection technology demonstration at Mare Island Naval Shipyard in 1999 and leveraging his more recent experience in underwater detection with an EM 61 in the Delaware River, Mr. Koster was responsible to put together an innovative underwater detection system for this project comprising an EM 61 using RTKGPS positioning to be towed behind a boat to detect possible UXO in Suisun Bay adjacent to Pier 2 at the NWS facility. He successfully demonstrated the system in the project VDS (GPO), however, because of the strong currents (2-5 knots) in the Bay, ECC and NAEVA determined the system unworkable that close to the pier and opted for an alternative geophysical procedure.

**Field Geophysicist, SWMU 4 and Red Beach and Blue Beach, Vieques, Puerto Rico, USA Environmental.** Mr. Koster supervised and participated in data collection using a combination of EM61 and EM61 Mk2 electromagnetic metal detectors using both fiducial marks and RTK GPS for positioning. He managed multiple geophysical data collection teams, managed the on-site data transfers and validation and supervised daily QC of the data collection effort.

**Field Geophysicist, Sioux Army Depot, Sidney, Nebraska, US Army Engineering and Support Center, Huntsville, Alabama.** Investigation totaled 20 acres over two areas. The original tasking was intended as a search for 1 burial pit and a series of disposal pits using EM61, EM31, and GPR. Based on the results, the survey area was stepped out due to finding a previously unknown burial trench and significantly more burial pits than had been anticipated.

**Geophysical Project Manager, MEC Detection and Discrimination Demonstration, Aberdeen and Yuma Proving Grounds, US Army Environmental Center.** On this project, he supervised and participated in data collection over more than 40 acres which featured a variety of terrain and vegetation



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conditions requiring the use of towed-array and hand-operated EM61 MK2 to achieve complete coverage. He selected the appropriate data positioning methodologies from among RTK GPS and conventional surveying techniques based on vegetation conditions. Mr. Kostera supervised the daily activities of two geophysical teams and coordinated the data reporting formats with an advanced data processing subcontractor.

## **EDUCATION AND TRAINING**

BS, Geology, Washington and Lee University, Lexington, Virginia, 1997  
40-hour HAZWOPER Training, 1998; Refresher, 2005

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## ALISON PASKI

### SUMMARY OF EXPERIENCE

Ms. Paski has 5 years experience processing data from over 18 MEC-project geophysical investigations. These data are from sites around the world, totaling over 660 acres and varying in individual size from 8 acres to over 200 acres. She is experienced in data processing for all the geophysical methods including TDEM, FDEM, total field and vertical gradient magnetics, resistivity, gravity, VLF, seismic and ground penetrating radar. Her responsibilities include positioning, leveling, applying lag and latency corrections, filtering and contouring the data, selecting targets, preparing dig sheets, creating geophysical maps and managing and archiving all of the resultant field and processed data. Ms. Paski has also processed the data for geophysical surveys at the Aberdeen and Yuma Proving Grounds Geophysical Test Sites, the Fort Ord ODDS Study and helped develop and apply quality assurance (QA) procedures to evaluate mapping practices and data quality at McClellan, Alabama. Her experience includes using all the standard geophysical data processing software applications including Geosoft Oasis Montaj, Golden Software Surfer, a variety of instrument-specific data transfer and editing programs and Autodesk AutoCAD and ESRI ArcView. Ms. Paski has co-authored two distinguished MEC-data related publications: Soil-Metal Discrimination Analysis of EM61 MK2 Time Decay Response at Former Camp Croft, SC, SAGEEP, 6 April 2005, David A. Smith, Zapata Engineering, G. Hunter Ware, Geophysical Associates, Roger J. Young, US Army Corps of Engineers, Alison J. Paski, NAEVA Geophysics, David S. Wolf, Zapata Engineering, Derek R. Anderson, Zapata Engineering, William F. Tompkins, Geophysical Associates, and, UX-Process Case Study Improving Data Quality, SERDP, ESTCP, and NAOC Technology Transfer Workshop, 20 July 2005, Amy Walker, CEHNC, Nick Valleau, Geosoft Inc., Alison Paski, NAEVA Geophysics.

### PROFESSIONAL EXPERIENCE

**Lead Geophysical Processor, Vieques Island, SWMU 4, Red Beach and Blue Beach, Naval Facilities Engineering Command, Atlantic.** In her role as lead processor, Ms. Paski received data electronically from this remote location, processed those data, picked targets and returned a target list to the site for reacquisition and clearance by the UXO contractor. She handled the data from multiple geophysical survey teams using different configurations of instruments, i.e., EM61 and EM 61 Mk2 using fiducial positioning methods, EM61 and EM61 Mk2 using RTK GPS positioning, all of which require different data processing techniques.

**Lead Geophysical Processor, Former Brooksville Turret and Gunnery Range, Florida, US Army Engineering and Support Center, Huntsville, Alabama.** This project is being performed by NAEVA for ECC. On this project, she received data from multiple teams using an EM61 Mk2 that was collected within 80 acres comprising a neighborhood of homes. As lead processor, she was responsible for processing the data and analyzing the results to help differentiate between infrastructure and possible UXO. Search areas were irregularly shaped and coordinates for many of the site attributes, such as roads, septic tanks, homeowner-built structures and features had to be hand entered into the dataset, making the task of processing all the more complex.

**Lead Geophysical Processor, Fort Hood, Texas, US Army Engineering and Support Center, Huntsville, Alabama.** On this task, she processed data collected using a dual EM61 Mk2 towed array using RTK GPS positioning and from a single-sensor EM61 Mk2 using RTK GPS positioning on this 27

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acre site. The towed array system required the additional task of data fusion from the two sensors prior to processing and generating a valid target list.

**Lead Geophysical Processor, Range 22T Kittensee Area 220, CMTC Hohenfels, Germany, US Army.** This work was performed by NAEVA for ECC. EM61 data were collected using fiducial marks for positioning and required Ms. Paski to apply additional filtering and leveling of the data to identify anomalies representative of possible subsurface UXO. The site is an active artillery and mortar training range that has dense fragmentation within the top 6-8 inches of soil. Ms. Paski was able to process the data to identify additional subsurface targets that were reacquired and excavated by field UXO teams.

## **EDUCATION AND TRAINING**

B.Sc., Geophysics, University of British Columbia, Vancouver, BC, 1999

Geosoft QA/QC Software Training Class & Peer Review – Winter 2002 and Fall 2004

Geosoft Oasis Montaj training class – Summer 2000